# FCC TEST REPORT

Report No.: SEFD1102008

## According to

## 47 CFR, Part 2, Part 15 and CISPR PUB. 22

**Applicant** : LG Electronics USA

1000 Sylvan Avenue Englewood Cliffs New Jersey Address

**United States** 

Manufacturer: LG Electronics Nanjing Display Co., Ltd.

No.346, Yaoxin Road Economic & Technical Address

**Development Zone Nanjing China** 

: LCD Monitor Equipment

Model No. : E1911SX

FCC ID BEJE1911SX

Trade Name LG

• The test result refers exclusively to the test presented test model / sample.

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 The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.

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# Document history

Report No.: SEFD1102008

Attachment No.	Date	Description
SEFD1102008	Feb 22, 2011	First edition

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# **FCC TEST REPORT**

## According to

## 47 CFR, Part 2, Part 15 and CISPR PUB. 22

**Applicant** : LG Electronics USA

1000 Sylvan Avenue Englewood Cliffs New Jersey Address

**United States** 

Manufacturer : LG Electronics Nanjing Display Co., Ltd.

No.346, Yaoxin Road Economic & Technical Address

Development Zone Nanjing China

**LCD** Monitor Equipment

Model No. E1911SX

FCC ID BEJE1911SX

Trade Name : LG

### I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 - 2003 and the energy emitted by this equipment was passed CISPR PUB. 22 and FCC Part 15 in both radiated and conducted emission class B limits. Testing was carried out on Feb 22, 2011 at Cerpass Technology Corp.

Documented By:

Approved By:

Report No.: SEFD1102008

Sugar Yu/ Administration

Clinton Kao/ Technical director

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# 1. Summary of Test Procedure and Test Result

Test Item	Normative References	Test Result		
Conducted Emission	ANSI C63.4-2003	PASS		
Conducted Emission	FCC Part 15 Subpart B	rass		
Dadiated Emission	ANSI C63.4-2003	DACC		
Radiated Emission	FCC Part 15 Subpart B	PASS		

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# 2. Test Configuration of Equipment under Test

## 2.1. Feature of Equipment under Test

LCD Monitor	Model No:	E1911SX			
VGA Cable Shielded, 1.5m, with two ferrite cores bonded					
VGA Cable Shielded, 1.5m					
Power Supply cable Non-Shielded, 1.8m					
Note: The VGA Cable are alternative on selling.					

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## 2.2. Test Manner

Test So	Test Software								
а	During testing, the interface cables and equipment positions were varied according to ANSI								
	C63.4.								
b	The complete test system included the PC, USB Keyboard, USB Mouse, Printer and EUT								
	for EMI test.								
С	During the test, setup up the EUT and all system, turn on the power of all Equipments, run								
	the EMC test software "H", set the contrast control to maximum, set the brightness control								
	to maximum, use white letters on a black background to represent all colors, make the EUT								
	at the test mode and it is normal operation, and then test.								
The pre	-test modes								
	Test Mode 1: Full system (VGA mode 1366*768@60Hz)								
	Test Mode 2: Full system (VGA mode 1024*768@75Hz)								
	Test Mode 3: Full system (VGA mode 720*400@70Hz)								
Select t	he worst case of the pre-test modes as the final test mode								
	Test Mode 2: Full system (VGA mode 1024*768@75Hz)								

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2.3. Description of Test System

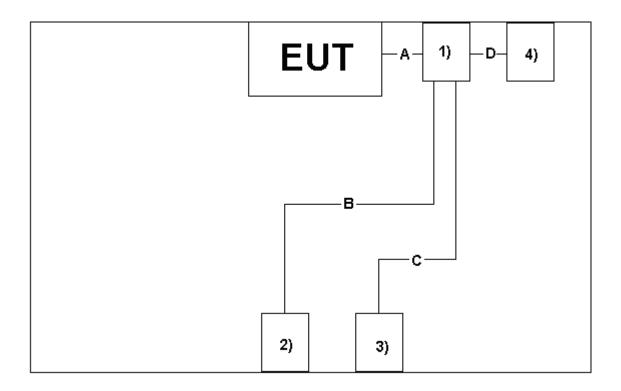
No	Device	Manufacturer	Model No.	Description	
1	PC	Dell	DCSM	N/A	
2	USB Keyboard	DELL	SK-8115	N/A	
3	USB Mouse	Logitech	831912-0000	N/A	
4	Printer	Epson	EX3	N/A	

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## 2.4. Connection Diagram of Test System



No	Cable	Quantity	Description
Α	VGA Cable	1	Shielded, 1.5m
В	USB Cable	1	Shielded, 2.1m, with one ferrite core bonded
С	USB Cable	1	Shielded, 1.8m
D	Parallel Cable	1	Shielded, 1.8m

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## 2.5. General Information of Test

Test Site:	Cerpass Technology Corp.				
Performand Location :	No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China				
NVLAP LAB Code :	200814-0				
FCC Registration Number :	916572, 331395				
IC Registration Number :	7290A-1, 7290A-2				
VCCI Registration Number :	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz				
Frequency Range Investigated :	Conducted Emission Test: from 150kHz to 30 MHz Radiated Emission Test: from 30 MHz to 1,000 MHz Radiated Emission Test: from 1GHz to 18GHz				
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 3 M.  The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.				

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Laboratory accreditation



## 2.6. Measurement Uncertainty

Conducted Emission						
The measurement ur	The measurement uncertainty is evaluated as ± 2.71 dB.					
Radiated Emission	Radiated Emission					
(30MHz -1000MHz)	Horizontal	al The measurement uncertainty is evaluated as ±3.89dB				
(30MHZ - 1000MHZ)	Vertical	The measurement uncertainty is evaluated as ± 3.59 d				
(10 100 47)	Horizontal	The measurement uncertainty is evaluated as ± 2.31 dB.				
(1G-18GHz)	Vertical	The measurement uncertainty is evaluated as ± 2.15 dB.				

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## **Test of Conducted Emission**

### 3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB µ V)		
0.15 – 0.5	66-56*	56-46*		
0.5 - 5.0	56	46		
5.0 - 30.0	60	50		

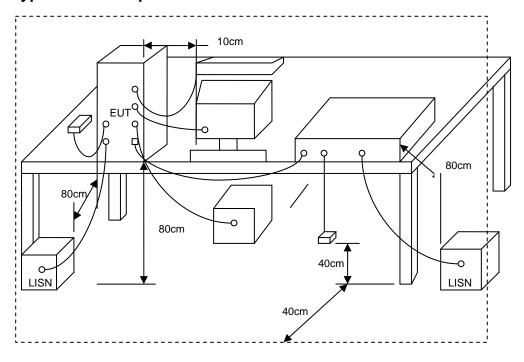
#### 3.2. **Test Procedures**

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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#### 3.3. **Typical test Setup**



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## 3.4. Measurement equipment

Instrument	Instrument Manufacturer		Serial No.	Calibration Date	
Test Receiver	R&S	ESCI	100565	2011.01.15	
AMN	R&S	ESH2-Z5	100182	2010.06.23	
Two-Line V-Network	R&S	ENV216	100325	2010.04.18	
ISN	FCC	FCC-TLISN-T2-02	20379	2010.06.23	
ISN	FCC	FCC-TLISN-T4-02	20380	2010.06.23	
ISN	FCC	FCC-TLISN-T8-02	20381	2010.06.23	
Current Probe	R&S	EZ-17	100303	2010.06.23	
Attenuator	R&S	ESH3-Z2	100529	2011.01.11	
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2010.08.14	

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## 3.5. Test Result and Data

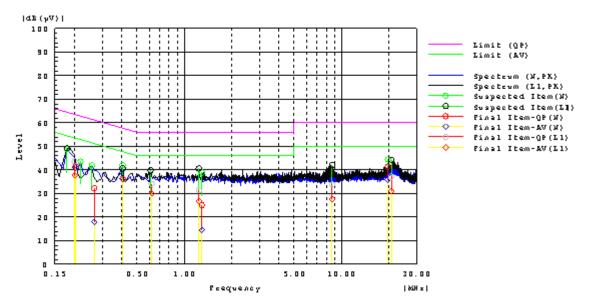
Test Mode: Test Mode 2: Full system (VGA mode 1024\*768@75Hz)

AC Power: AC 120V/60Hz Phase: L&N

EUT: **LCD Monitor** Model No.: E1911SX

Temperature: 22°C Humidity: 50%

Pressur(mbar): 1002 Date: 2011/02/16



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Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.20025	L1	23.8	17.9	19.9	43.7	37.8	63.6	53.6	19.9	15.8	Pass
0.40705	L1	16.2	16.2	19.9	36.1	36.1	57.7	47.7	21.6	11.6	Pass
0.61997	L1	14.3	10.4	19.8	34.1	30.2	56.0	46.0	21.9	15.8	Pass
1.23931	L1	11.7	7.2	19.7	31.4	26.9	56.0	46.0	24.6	19.1	Pass
8.7132	L1	14.2	7.9	19.7	33.9	27.6	60.0	50.0	26.1	22.4	Pass
20.7402	L1	17.6	11.4	19.6	37.2	31.0	60.0	50.0	22.8	19.0	Pass
19.7126	N	21.4	16.0	20.0	41.4	36.0	60.0	50.0	18.6	14.0	Pass
1.29169	N	5.7	-4.8	19.4	25.1	14.6	56.0	46.0	30.9	31.4	Pass
0.40627	N	16.8	16.8	19.5	36.3	36.3	57.7	47.7	21.4	11.4	Pass
0.26679	N	12.7	-1.5	19.5	32.2	18.0	61.2	51.2	29.0	33.2	Pass
0.20354	N	22.0	21.5	19.5	41.5	41.0	63.5	53.5	22.0	12.5	Pass
0.20364	N	22.0	21.5	19.5	41.5	41.0	63.5	53.5	22.0	12.5	Pass

Note: Measurement Level = Reading Level + Correct Factor

Test engineer:

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## 4. Test of Radiated Emission

### 4.1. Test Limit

Radiated emissions from 30 MHz to 1,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

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For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Distance	Level	Level
(MHz)	(m)	(dBuV/m)	(dBuV/m)
30 - 88	3	40(QP)	N/A
88 - 216	3	43(QP)	N/A
216-960	3	46(QP)	N/A
960-1000	3	54(QP)	N/A
1000-18000	3	74(PK)	54(AV)

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB µ V/ M)
30-230	10	30
230-1000	10	37

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### 4.2. Test Procedures

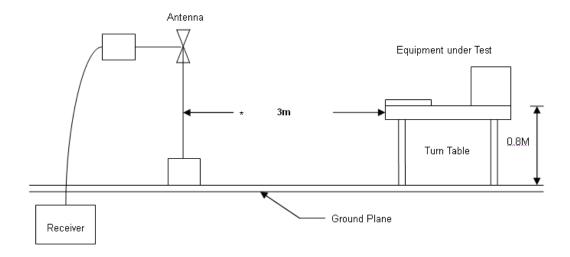
- a. The EUT was placed on a Rota table top 0.8 meter above ground.
- b. The EUT and its simulators are placed on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

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- c. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
- d. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.
- e. Radiated emissions were invested over the frequency range from 30MHz to1GHz using a receiver bandwidth of 120KHz and the frequency range from 1GHz to 18GHz using a receiver bandwidth of 1MHz.

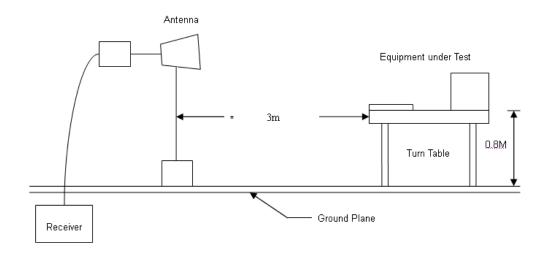
## 4.3. Typical test Setup

Below 1GHz Test Setup



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Above 1GHz Test Setup



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## 4.4. Measurement equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	
EMI Test Receiver	R&S	ESCI	100563	2010.06.23	
H64 Amplifier	HP	8447F	3113A05582	2010.08.14	
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2011.02.10	
Ultra Broadband Antenna	R&S	HL562	100363	2010.08.14	
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2010.08.14	
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14	
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17	

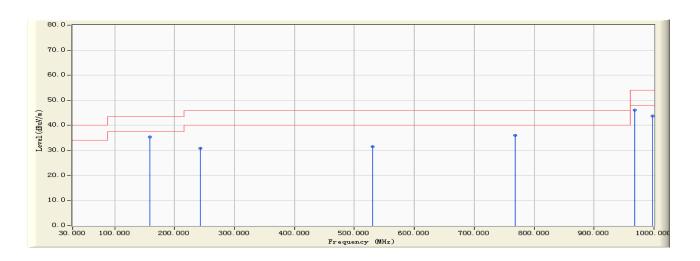
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## 4.5. Test Result and Data

## Under 1G:

Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/02/18 - 14:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD Monitor	Probe : HL562(30-1000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode
	1024*768@75Hz)

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			Correct	Reading	Measure	Morain	Limit	Detector Type	Ant	Table
		Frequency	Factor	Level	Level	Margin			Pos	Pos
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)		(cm)	(deg)
1		159.340	-17.992	53.450	35.459	-8.041	43.500	QUASIPEAK	200.000	354.500
2		243.610	-15.453	46.240	30.788	-15.212	46.000	QUASIPEAK	200.000	35.240
3		530.140	-8.462	39.910	31.448	-14.552	46.000	QUASIPEAK	200.000	12.670
4		768.540	-3.683	39.610	35.928	-10.072	46.000	QUASIPEAK	200.000	125.540
5	*	967.350	-0.852	46.951	46.099	-7.901	54.000	QUASIPEAK	200.000	36.840
6		998.034	-0.072	43.820	43.748	-10.252	54.000	QUASIPEAK	200.000	36.540

## Note:

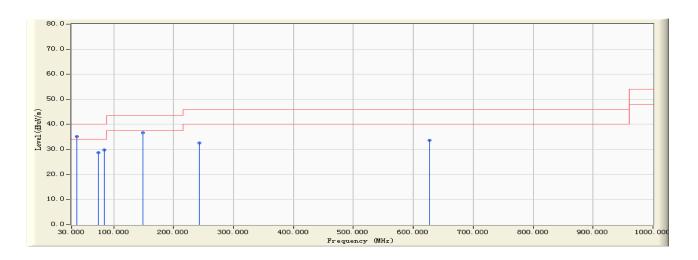
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/02/18 - 14:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD Monitor	Probe : HL562(30-1000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode
	1024*768@75Hz)



		Fraguency	Correct	Reading	Measure	Morgin	Limit	Detector	Ant	Table
		Frequency (MHz)	Factor	Level	Level	Margin (dB)	(dBuV/m)		Pos	Pos
		(IVITIZ)	(dB)	(dBuV)	(dBuV/m)	(GB)	(abuv/iii)	Туре	(cm)	(deg)
1	*	38.230	-12.179	47.420	35.241	-4.759	40.000	QUASIPEAK	100.000	16.540
2		74.641	-18.916	47.710	28.794	-11.206	40.000	QUASIPEAK	100.000	34.000
3		84.364	-17.833	47.740	29.907	-10.093	40.000	QUASIPEAK	100.000	36.640
4		148.365	-17.884	54.540	36.657	-6.843	43.500	QUASIPEAK	100.000	245.840
5		243.614	-15.453	47.970	32.518	-13.482	46.000	QUASIPEAK	100.000	35.647
6		627.364	-6.925	40.694	33.768	-12.232	46.000	QUASIPEAK	100.000	53.618

## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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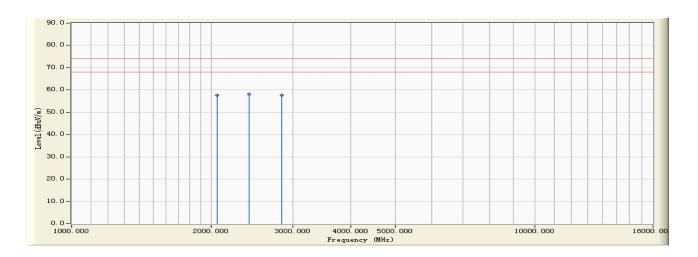
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Above 1G:

Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/02/22 - 13:02
Limit : FCC_15_03M_PK	Margin : 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode
	1024*768@75Hz)

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		Frequency	Correct	Reading	Measure	Margin	Limit	Detector	Ant	Table
		(MHz)	Factor	Level	Level	(dB)	(dBuV/m)	Туре	Pos	Pos
		(1411 12)	(dB)	(dBuV)	(dBuV/m)	(ub)	(abaviii)	турс	(cm)	(deg)
1		2062.300	18.931	38.700	57.631	-16.369	74.000	PEAK	100.000	45.600
2	*	2412.650	15.940	42.300	58.240	-15.760	74.000	PEAK	100.000	154.000
3		2842.360	16.591	41.100	57.691	-16.309	74.000	PEAK	100.000	48.500

## Note:

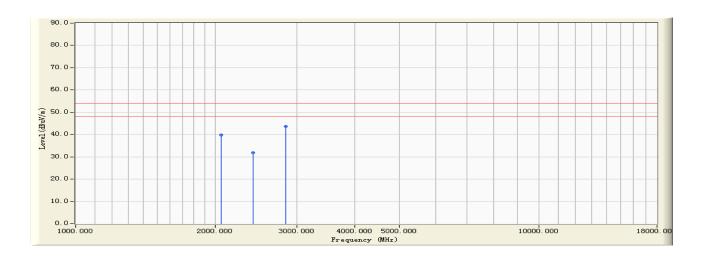
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/02/22 - 13:02
Limit : FCC_15_03M_AV	Margin: 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode
	1024*768@75Hz)



		Eroguenov	Correct	Reading	Measure	Margin	Limit	Detector	Ant	Table
		Frequency	Factor	Level	Level		(dBuV/m)		Pos	Pos
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(ubuv/iii)	Туре	(cm)	(deg)
1		2062.300	18.931	20.800	39.731	-14.269	54.000	AVERAGE	100.000	45.600
2		2412.650	15.940	16.000	31.940	-22.060	54.000	AVERAGE	100.000	154.000
3	*	2842.360	16.591	27.100	43.691	-10.309	54.000	AVERAGE	100.000	48.500

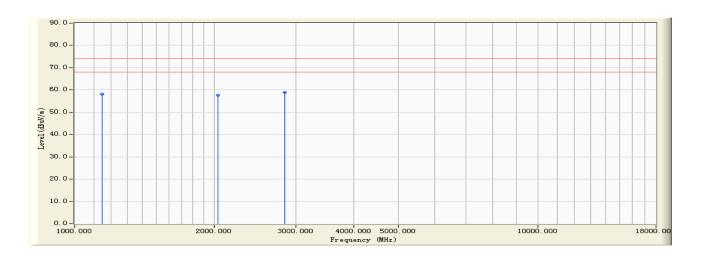
## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven	
Site : EMC Lab AC 102	Time : 2011/02/22 - 13:05
Limit : FCC_15_03M_PK	Margin: 6
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode
	1024*768@75Hz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		1146.600	11.231	47.000	58.231	-15.769	74.000	PEAK	100.000	265.000
2		2042.300	18.995	38.600	57.594	-16.406	74.000	PEAK	100.000	158.600
3	*	2845.600	16.597	42.200	58.797	-15.203	74.000	PEAK	100.000	223.000

## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.

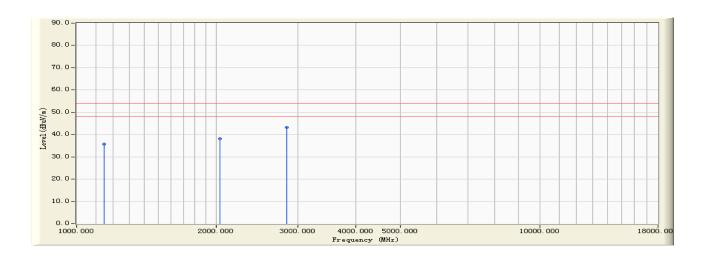
3. Measurement Level = Reading Level + Correct Factor

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Engineer : Seven				
Site : EMC Lab AC 102	Time : 2011/02/22 - 13:05			
Limit : FCC_15_03M_AV	Margin : 6			
EUT : LCD Monitor	Probe : BBHA9120D(1-18GHz) - VERTICAL			
Power : AC 120V/60Hz	Note : Test Mode 2: Full system (VGA mode			
	1024*768@75Hz)			



		Frequency (MHz)	Correct Factor	Reading Level	Measure Level	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos	Table Pos
			(dB)	(dBuV)	(dBuV/m)				(cm)	(deg)
1		1146.600	11.231	24.500	35.731	-18.269	54.000	AVERAGE	100.000	265.000
2		2042.300	18.995	19.100	38.094	-15.906	54.000	AVERAGE	100.000	158.000
3	*	2845.600	16.597	26.600	43.197	-10.803	54.000	AVERAGE	100.000	223.000

## Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " \* ", means this data is the worst emission level.

3. Measurement Level = Reading Level + Correct Factor

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